

Substitute Specification



METHOD FOR OPERATING A CRYOCOOLER USING
TEMPERATURE TRENDING MONITORING

Technical Field

[0001] This invention relates generally to low temperature or cryogenic refrigeration and, more particularly, to the operation of a cryocooler.

Background Art

[0002] Cryocoolers are employed to generate refrigeration and to provide that refrigeration for applications such as high temperature superconductivity and magnetic resonance imaging. Failure of the cryocooler can have severe consequences for such application systems. It is desirable therefore to operate a cryocooler so as to avoid the failure of the cryocooler while it is on line.

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[0003] Accordingly, it is an object of this invention to provide a method for operating a cryocooler so as to reduce or eliminate the likelihood of the cryocooler failing while it is on line and providing critical refrigeration to an application such as a magnetic resonance imaging system or a high temperature superconductivity application.

Summary Of The Invention

[0004] The above and other objects, which will become apparent to those skilled in the art upon a reading of this disclosure, are attained by the present invention which is: